**Course descriptor**

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| Title of the course | **An introduction into Digital Humanities** |
| Title of the Academic Programme  | 'Applied and Interdisciplinary History «Usable Pasts»', 'Business and Politics in Modern Asia' |
| Type of the course[[1]](#footnote-1) | Elective |
| Prerequisites | -advanced command of English- basic computer skills (basic tasks of file management and software installation)- basic knowledge of office applications (word processors, electronic tables) |
| ECTS workload | 4 |
| Total indicative study hours | Directed Study | Self-directed study  | Total |
| 48 | 104 | 152 |
| Course Overview | Digital humanities is an umbrella term for a number of fields of inquiry dealing with the application of computers in the humanity scholarship. Traditional areas of concentration include historical data analysis, corpus linguistics, text mining, and online publication of sources. The course will include several modules dealing with (1) data analysis and data visualisation including elements of social network analysis, computer cartography, and computer text analysis. (2) data pre-processing, including cleaning the data and preparing them for the use in data analysis environments and text markup for research purposes. The course is focused on both studying examples of Digital humanities scholarship and acquiring specific skills. By the end of the course, the students will be expected to understand principles of data analysis in the humanities and possess a sufficient command of tools for data pre-processing, analysis, and visualisation (basics of R, Perl and Regular Expressions, elements of GIS) for implementation of individual research projects and mediation between humanity scholars and computer scientists in Digital humanities projects. The practical study of analysis will be based on both training datasets and the real-life historical datasets. The students will learn how to use the R environment for data analysis and simple Perl scripts and Regular Expressions for data collection and pre-processing. A special section of the course deals with basics of GIS. The emphasis is placed on the development of practical skills. |
| Intended Learning Outcomes (ILO)[[2]](#footnote-2) | Upon completion of the course a student: Is able to reflex (evaluate and rework) the learned scientific and activity methods (УК-1)Is able to create new theories, invent new ways and tools of professional activity (УК-2)Masters new research methods independently , changes the scientific and production profile of his/her activities (УК-3)Is able to improve and develop his intellectual and cultural level, to build a trajectory of professional development and career (УК-4)Able to work with information: identify, evaluate and use information from a variety of sources for scientific and professional purposes (including with a systematic approach) (ОПК-1)Is able to perform interdisciplinary interaction and cooperation with representatives of other fields of knowledge while solving research and applied tasks (ОПК-5)Is able to solve problems in the professional environment on the basis of analysis and synthesis (ОПК-6)Capable of conducting independent research, including problem analysis, setting goals and objectives, identifying the object and subject of research, choosing the mode and methods of research, and assessing its quality (ОПК-7)Is able to conduct independent fundamental and applied research using classical and modern methodology, analysis of problems, setting goals and objectives, selection of the object and subject of research, choice of research mode and methods, as well as assessment of its quality (ПК-1)Is able to present the results of research with special terminology (ПК-3)Is able to take part in scientific polemics in oral and written form (ПК-4)Is able to analyze the obtained information using modern software (ПК-5)Is capable of extracting, selecting and structuring information from a variety of types of sources according to professional objectives (ПК-7) |
| Indicative Course Content | Visualization and its role in data analysis. Standard tasks of data analysis, their graphical and analytic implementation. R basics: command-line interface, objects, functions, and file management. Descriptive statistics and data transformation in R. Basic R graphics. Implementation of basic analytic procedures in R. Data pre-processing. Regular Expressions. R: Some advanced chapters: Basics of network analysis in R; Text analysis in R; Basics of R cartography. Elements of computer cartography and GIS. Digital humanities applications.  |
| Teaching and Learning Methods | The course is based on traditional methods of teaching and combines traditional lectures, seminars, and practical classes. Seminar activities require reading of suggested texts and active participation in class discussions. Practical classes imply guided work on the computers with specialised software. |
| Indicative Assessment Methods and Strategy | AssessmentStudents’ final grade will consist of:Class attendance and engagement: 40 %Standard performance control tasks: 20%Project work: 40%Guidelines for Knowledge AssessmentStudents are expected to attend seminars, to regularly prepare homework assignments and read literature for seminar discussions. The resources for this class are research literature, lectures, datasets etc. On seminars, students are expected to take active part in the discussion and demonstrate knowledge of the content of lectures and readings. Attendance and levels of participation in class discussions during the seminars influence the final grade. If the student misses more than 20% of class meetings, additional assignment can be provided. In the end of the course students submit a standard set of control assignments and results of their project work. The grade will be composed of attendance / class participation, standard performance control assignment, and project work (all components are graded on the basis of a 10-point scale). The final grade is drawn on the 10-point scale. The final grade’s composition will be the following: attendance and class participation (40%), Standard performance control tasks (20%), Project work (40%). O stands for “grade”. The formula for the final grade (O final) is the following: O final = 0,4O attendance/participation + 0,2 standard control assignments + 0,4O project. |
| Readings / Indicative Learning Resources[[3]](#footnote-3) | Mandatory Hai-Jew, Sh., Ed. (2017) Data Analytics in Digital Humanities. Springer [https://link.springer.com/book/10.1007%2F978-3-319-54499-1](https://link.springer.com/book/10.1007/978-3-319-54499-1) Sabharwal, A. (2015) Digital Curation in the Digital Humanities : Preserving and Promoting Archival and Special Collections. Elsevier Science & Technology <https://ebookcentral.proquest.com/lib/hselibrary-ebooks/detail.action?docID=2028120> Optional Schreibman, S., Siemens, R. & Unsworth, J., Eds. (2008) A Companion to Digital Humanities, 1st Edn. John Wiley & Sons (Blackwell Companions to Literature and Culture) <https://ebookcentral.proquest.com/lib/hselibrary-ebooks/detail.action?docID=350868> Terras, M., Nyhan, J., & Vanhoutte, E., Eds. (2013) Defining Digital Humanities : A Reader. Taylor & Francis Group (Digital Research in the Arts and Humanities) <https://ebookcentral.proquest.com/lib/hselibrary-ebooks/detail.action?docID=1426876> * 1. Specific software products
	2. **QGIS:** A Free and Open Source Geographic Information System. <https://qgis.org/en/site/>
	3. **R:** A Language and Environment for Statistical Computing / The R Development Core Team. <https://www.r-project.org/>
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| Course Instructor | Ass. Prof. Alexei Kouprianov |

1. ***Notes:***

 Type of the course - core (mandatory); optional or elective. [↑](#footnote-ref-1)
2. Intended Learning Outcomes (ILO) - for the academic programmes which are exposed to international accreditation or other forms of external evaluation, the list of ILO must be complemented with “Mapping of Programme and Course/module learning outcomes”. [↑](#footnote-ref-2)
3. Indicative Learning Resources - to be filled either in the Course descriptor or in the Course Syllabus. [↑](#footnote-ref-3)